

6BQ6GTB/6CU6

Beam Power Tube

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC) 6.3 volts
Current 1.2 amp

Direct Interelectrode Capacitances (Approx.):^a

Grid No.1 to plate. 0.6 $\mu\mu\text{f}$
Grid No.1 to cathode & grid No.3,
grid No.2, and heater 15 $\mu\mu\text{f}$
Plate to cathode & grid No.3,
grid No.2, and heater 7 $\mu\mu\text{f}$ ←

Characteristics, Class A₁ Amplifier:

Plate Voltage 60 150 250 volts
Grid-No.2 Voltage 150 150 150 volts
Grid-No.1 Voltage 0 -22.5 -22.5 volts
Mu-Factor, Grid No.2 to Grid No.1 4.3 -
Plate Resistance (Approx.) - 14500 ohms
Transconductance - 5900 μmhos
Plate Current 260^b - 57 ma
Grid-No.2 Current 26^b - 2.1 ma
Grid-No.1 Voltage (Approx.)
for plate ma. = 1 - - -43 volts

Mechanical:

Operating Position Any
Maximum Overall Length 3-7/8"
Seated Length 2-7/8" to 3-5/16"
Maximum Diameter 1-9/32"
Bulb T9

Cap Skirted Miniature (JEDEC No.C1-2, C1-3, or C1-33)

Bases (Alternates):

Intermediate-Shell Octal:

7-Pin, Arrangement 1 (JEDEC Group 1, No.B7-7)

6-Pin, Arrangement 2 (JEDEC Group 1, No.B6-81)

Short Intermediate-Shell Octal with External Barriers:

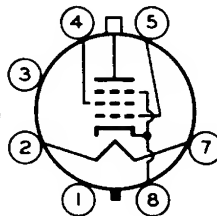
7-Pin (JEDEC Group 1, No.B7-59)

6-Pin, Arrangement 2 (JEDEC Group 1, No.B6-84)

5-Pin, Arrangement 3 (JEDEC Group 1, No.B5-187)

Basing Designation for BOTTOM VIEW 6AM

Pin 1^c - No Connection
Pin 2 - Heater
Pin 3^c - No Connection
Pin 4 - Grid No.2



Pin 5 - Grid No.1
Pin 7 - Heater
Pin 8 - Cathode,
Grid No.3
Cap - Plate

← Indicates a change.



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DATA 1
1-62

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HORIZONTAL-DEFLECTION AMPLIFIER

Maximum Ratings, Design-Center Values Except as Noted:

For operation in a 525-line, 30-frame system^d

DC PLATE-SUPPLY VOLTAGE	600	max.	volts
PEAK POSITIVE-PULSE PLATE VOLTAGE (Absolute maximum) ^e	6000 ^f	max.	volts
PEAK NEGATIVE-PULSE PLATE VOLTAGE	1250	max.	volts
DC GRID-No.2 (SCREEN-GRID) VOLTAGE.	200	max.	volts
PEAK NEGATIVE-PULSE GRID-No.1 (CONTROL- GRID) VOLTAGE	300	max.	volts
CATHODE CURRENT:			
Peak.	400	max.	ma
→ Average	110	max.	ma
GRID-No.2 INPUT	2.5	max.	watts
PLATE DISSIPATION ^g	11	max.	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode .	200	max.	volts
Heater positive with respect to cathode .	200 ^h	max.	volts
BULB TEMPERATURE (At hottest point on bulb surface).	220	max.	°C

→ Maximum Circuit Values:

Grid-No.1-Circuit Resistance.	0.47	max.	megohm
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^a Without external shield.

^b This value can be measured by a method involving a recurrent wave form such that the maximum ratings of the tube will not be exceeded.

^c On the 6-pin bases, pin 1 as well as pin 6 is omitted. On the 5-pin base, pins 1 and 3 as well as pin 6 are omitted.

^d As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

^e This rating is applicable where the duration of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.

^f Under no circumstances should this absolute value be exceeded.

^g An adequate bias resistor or other means is required to protect the tube in the absence of excitation.

^h The dc component must not exceed 100 volts.

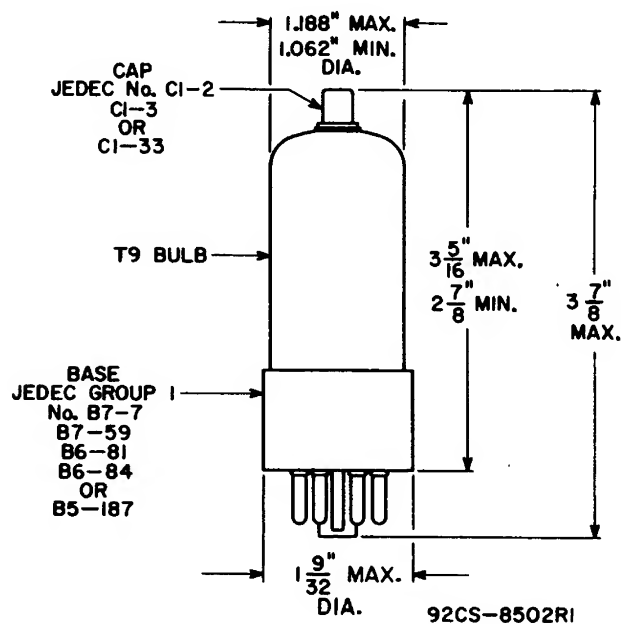
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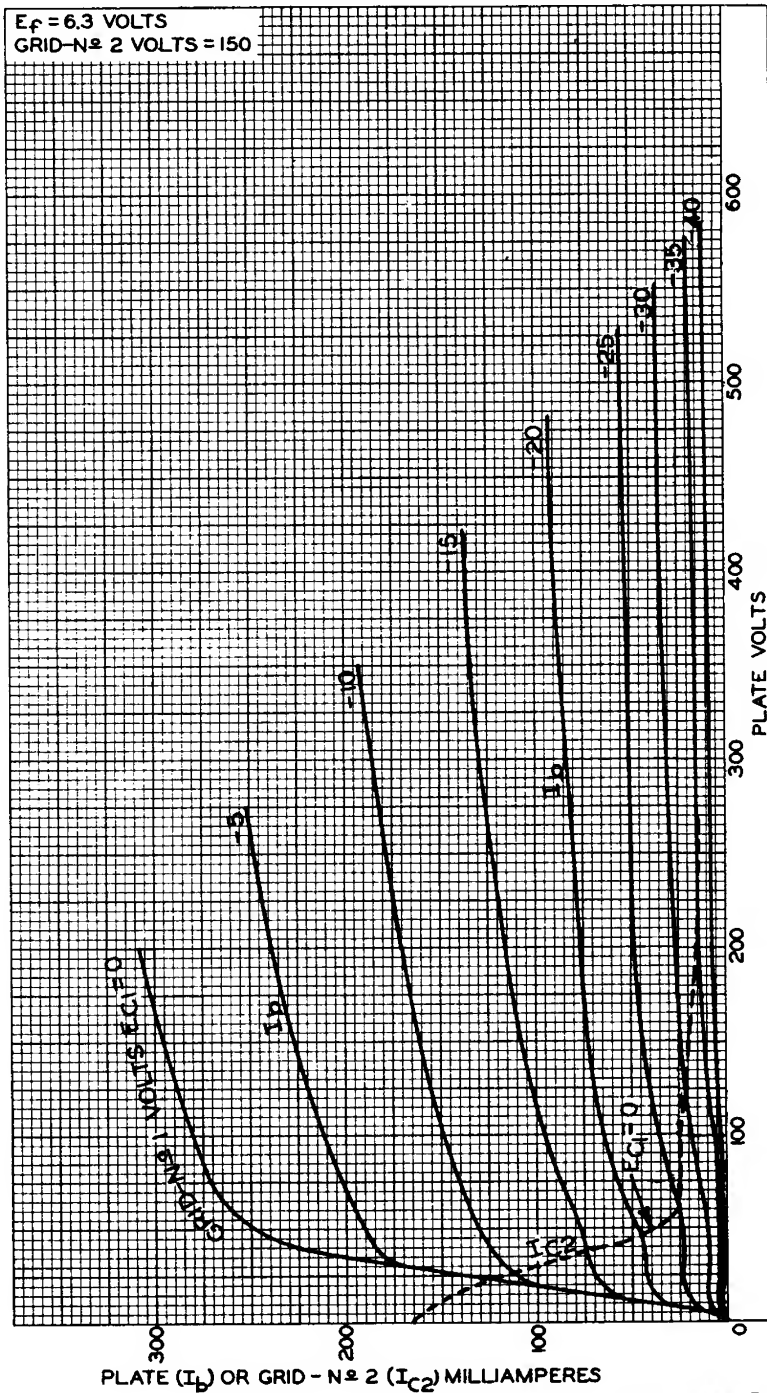


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DATA 2
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AVERAGE CHARACTERISTICS



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